PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ralph James

Attorney Docket No.: 501292.01

Filed

: Concurrently herewith

Title

: METHOD AND SYSTEM FOR SYNCHRONIZING COMMUNICATIONS

LINKS IN A HUB-BASED MEMORY SYSTEM

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. Copies of the cited non-patent literature reference, as required under 37 C.F.R. § 1.98(a)(2), are enclosed. Copies of the cited U.S. patents and U.S. patent application publications will not be submitted herewith in accordance with the waiver by the Office of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for U.S. national patent applications filed after June 30, 2003. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 09/994,516, describing and claiming subject matter that is similar to the subject matter of this application, was filed on November 26, 2001. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/165,787, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 7, 2002. This related application, as well as

any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/215,505, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 9, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/211,036, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 2, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/601,222, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 20, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/213,038, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 5, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/601,104, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 19, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/238,322, describing and claiming subject matter that is similar to the

subject matter of this application, was filed on September 9, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/232,842, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 29, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/601,253, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 20, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/232,473, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 29, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/601,252, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 20, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/222,415, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 16, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/222,393, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 16, 2002. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

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Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/690,810, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 20, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/645,288, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 20, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/644,522, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 19, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/660,844, describing and claiming subject matter that is similar to the subject matter of this application, was filed on September 12, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/651,801, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 28, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/665,904, describing and claiming subject matter that is similar to the subject matter of this application, was filed on September 18, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/653,044, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 28, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/695,383, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 27, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicants also wish to make known to the Patent and Trademark Office that an application, Serial No. 10/460,588, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 11, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

Edward W. Bulchis Registration No. 26,847

EWB:dms

Enclosures:

Postcard Form PTO-1449 Cited References (2) Copies of Related Applications (23)

1420 Fifth Avenue, Suite 3400 Seattle, WA 98101 Telephone (206) 903-8800 Facsimile (206) 903-8820

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FORM PTO-1449 (REV.7-80)

* EXAMINER:

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 501292.01

APPLICATION NO.

Not yet assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Ralph James

FILING DATE
Concurrently herewith

GROUP ART UNIT
Not yet assigned

	1		U.S	. PATENT DOCUMENTS		τ	· - · -
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIAT
	AA	5,251,303	10/05/93	Fogg, Jr. et al.	395	275	
	AB	5,432,907	07/11/95	Picazo, Jr. et al.	395	200	·
	AC	5,442,770	08/15/95	Barratt	395	403	
· · · · · · · · · · · · · · · · · · ·	AD	5,497,476	03/05/96	Oldfield et al.	395	439	
	AE	5,659,798	08/19/97	Blumrich et al.	395	846	
	AF	5,818,844	10/06/98	Singh et al.	370	463	
	AG	5,875,352	02/23/99	Gentry et al.	395	843	
	АН	6,061,263	05/09/00	Boaz et al.	365	51	
	ΑI	6,067,262	05/23/00	Irrinki et al.	365	201	
	ΑJ	6,073,190	06/06/00	Rooney	710	56	
	AK	6,105,075	08/15/00	Ghaffari	710	5	
	AL	6,137,709	10/24/00	Boaz et al.	365	51	-
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	AO	6,167,486	12/26/00	Lee et al.	711	120	
	AP	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
	AQ	6,233,376 B1	05/15/01	Updegrove	385	14	
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	ΑV	6,301,637 B1	10/09/01	Krull et al.	711	112	
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	AX	6,330,205 B2	12/11/01	Shimizu et al.	365	230.06	
	AY	6,347,055 B1	02/12/02	Motomura	365	189.05	

Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO. 501292.01

APPLICATION NO.

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APPLICANT(S)

Ralph James

FILING DATE
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GROUP ART UNIT
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Concurrent

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATI
	AZ	6,349,363 B2	02/19/02	Cai et al.	711	129	
	ВА	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
	вв	6,367,074 B1	04/02/02	Bates et al.	717	11	
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	BD	6,381,190 B1	04/30/02	Shinkai	365	230.03	
	BE	6,421,744 B1	07/16/02	Morrison et al.	710	22	***
	BF	6,434,639 B1	08/13/02	Haghighi	710	39	
	BG	6,462,978 B2	10/08/02	Shibata et al.	365	63	
	вн	6,463,059 B1	10/08/02	Movshovich et al.	370	389	
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	во	6,505,287 B2	01/07/03	Uematsu	711	170	· · · · · ·
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	ВQ	6,523,093 B1	02/18/03	Bogin et al.	711	137	
	BR	6,539,490 B1	03/25/03	Forbes et al.	713	401	
	BS	6,552,564 B1	04/22/03	Forbes et al.	326	30	
	вт	6,587,912 B2	07/01/03	Leddige et al.	711	5	
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	вv	6,594,713 B1	07/15/03	Fuoco et al.	710	31	
	BW	6,622,227 B2	09/16/03	Zumkehr et al.	711	167	

EXAMINER

DATE CONSIDERED

^{*} EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV.7-80) PATENT AND TRADEMARK OFFICE						APPLICATION NO. Not yet assigned				
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S)						
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							No	Not yet assigned		
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLA	ss ——	SUBCLASS		G DATE OPRIATE
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	ву	2002/0112119 A1	08/15/02	Halbert et	al.	711		115		
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	СВ	2003/0043426 A1	03/06/03	Baker et a	1.	359		109		
	cc 2003/0229770 A1 12/11/03 Jeddeloh			711		213				
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	CF									
		ОТНЕ	R PRIOR A	RT (Including	Author, Title, Date, Pertinent Po	ages, Etc.))			
	CG	Intel, "Intel 840 pp. 1-178.	Chipset: 82	840 Memor	y Controller Hub (MC	CH)", I	Patas	sheet, Octo	ber 19	99,
	СН	Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM", Micron Technology, Inc., 2002, pp. 1-23.								
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